Computer Methods in Applied Mechanics and Engineering 91 (1991) 1415–1417
North-Holland

Author index of Volume 91*

Alba, R., A. Oliva, C.D. Pérez Segarra and M. Costa, Numerical simulation of the thermal behaviour of heat exchangers and storage devices using multilevel and ADI techniques (1–3) 1203–1218
Alba, R., see Costa, M. (1–3) 1123–1134
Alujevic, A., G. Kuhn and P. Skerget, Boundary elements for the solution of Navier–Stokes equations (1–3) 1187–1201
Anderson, D.V., see Gruber, R. (1–3) 1135–1149
Argyris, J., G. Faust and M. Haase, Χάoς – An adventure in chaos (1–3) 997–1091
Atamian, C., G.V. Dinh, R. Glowinski, J. He and J. Periaux, On some imbedding methods applied to fluid dynamics and electro-magnetics (1–3) 1271–1299
Atluri, S.N., see C.Y. Liao (1–3) 1253–1270
Awrejcewicz, J., Nonlinear dynamics of a two-body nonlinear mechanical system (1–3) 1093–1108

Bazhlekov, I.Bl., see Shopov, P.J. (1–3) 1157–1174
Berković, M. and Z. Drašković, On the essential mechanical boundary conditions in two-field finite element approximations (1–3) 1339–1355
Brauchli, H. and R. Weber, Dynamical equations in natural coordinates (1–3) 1403–1414

Cooper, W.A., see Gruber, R. (1–3) 1135–1149
Costa, M., A. Oliva, C.D. Pérez Segarra and R. Alba, Numerical simulation of solid–liquid phase change phenomena (1–3) 1123–1134
Costa, M., see Alba, R. (1–3) 1203–1218

Diakonov, S., To the calculation of low frequency oscillations of the Earth core (1–3) 1219–1228
Dinh, G.V., see Atamian, C. (1–3) 1271–1299
Drašković, Z., see Berković, M. (1–3) 1339–1355

Eiseman, P.R., Control point forms for interactive grid manipulation (1–3) 1151–1156

Falques, A., see Mercader, I. (1–3) 1245–1251
Faust, G., see Argyris, J. (1–3) 997–1091
Fu, G.Y., see Gruber, R. (1–3) 1135–1149

Glowinski, R., see Atamian, C. (1–3) 1271–1299
Gruber, R., S. Merazzi, W.A. Cooper, G.Y. Fu, U. Schwenn and D.V. Anderson, Ideal magnetohydrodynamic stability computations for three-dimensional fusion devices (1–3) 1135–1149

* The issue number is given in front of the page numbers.

Haase, M., see Argyris, J. (1 – 3) 997 – 1091
He, J., see Atamian, C. (1 – 3) 1271 – 1299
Heise, U., Fundamental solutions of the Laplace operator and of Navier's elasticity operator for Riemann surfaces with two branch points (1 – 3) 1301 – 1325

Kocher, G., Industrial application of linear/nonlinear dynamics of multibody systems (1 – 3) 1397 – 1402
Kuhn, G., see Alujevic, A. (1 – 3) 1187 – 1201
Kubota, H., see Wada, A. (1 – 3) 1365 – 1378

Lau, S.L. and S.W. Yuen, The Hopf bifurcation and limit cycle by the incremental harmonic balance method (1 – 3) 1109 – 1121
Liao, C.Y. and S.N. Atluri, A finite element alternating method for evaluation of stress intensity factors for part-circular cracks subjected to arbitrary loadings (1 – 3) 1253 – 1270

Maißer, P., Analytical dynamics of multibody systems (1 – 3) 1391 – 1396
Merazzi, S., see Gruber, R. (1 – 3) 1135 – 1149
Mercader, I., M. Net and A. Falques, Spectral methods for high order equations (1 – 3) 1245 – 1251

Net, M., see Mercarder, I. (1 – 3) 1245 – 1251

Oliva, A., see Alba, R. (1 – 3) 1203 – 1218
Oliva, A., see Costa, M. (1 – 3) 1123 – 1134
Orlov, I.V. and V.L. Yumashev, A software system for standard presentation of flow fields in computational fluid dynamics (1 – 3) 1379 – 1389

Pérez Segarra, C.D., see Alba, R. (1 – 3) 1203 – 1218
Pérez Segarra, C.D., see Costa, M. (1 – 3) 1123 – 1134
Periaux, J., see Atamian, C. (1 – 3) 1271 – 1299

Rakowski, J., A new methodology of evaluation of C^0 bending finite elements (1 – 3) 1327 – 1338

Schwenn, U., see Gruber, R. (1 – 3) 1135 – 1149
Shopov, P.J. and I.Bl. Bazhlekov, Numerical method for viscous hydrodynamic problems with dynamic contact lines (1 – 3) 1157 – 1174
Skerget, P., see Alujevic, A. (1 – 3) 1187 – 1201

Ungarish, M., Modeling and simulation of separating mixture flows (1 – 3) 1175 – 1185

Wada, A. and H. Kubota, Static and dynamic analysis of collapse behaviour of steel structures (1 – 3) 1365 – 1378
Weber, R., see Brauchli, H. (1 – 3) 1403 – 1414
Wendland, W.L., Analytical and numerical developments in 3D boundary element methods for elastic problems (1 – 3) 1229 – 1235

Xingjian, Y., A database design technique for finite element analysis (1 – 3) 1357 – 1364

Yu, D., Mathematical foundation of adaptive boundary element methods (1 – 3) 1237 – 1243
Yuen, S.W., see Lau, S.L. (1 – 3) 1109 – 1121
Yumashev, V.L., see Orlov, I.V. (1 – 3) 1379 – 1389

Computer Methods in Applied Mechanics and Engineering 91 (1991) 1419–1423
North-Holland

Subject index of Volume 91*

Boundary element methods

Boundary elements for the solution of Navier–Stokes equations, A. Alujevic, G. Kuhn and P. Skerget (1–3) 1187–1201
Analytical and numerical developments in 3D boundary element methods for elastic problems, W.L. Wendland (1–3) 1229–1235
Mathematical foundation of adaptive boundary element methods, D. Yu (1–3) 1237–1243
Fundamental solutions of the Laplace operator and of Navier's elasticity operator for Riemann surfaces with two branch points, U. Heise (1–3) 1301–1325

Conformal mapping

Fundamental solutions of the Laplace operator and of Navier's elasticity operator for Riemann surfaces with two branch points, U. Heise (1–3) 1301–1325

Control theory

On some imbedding methods applied to fluid dynamics and electromagnetics, C. Atamian, G.V. Dinh, R. Glowinski, J. He and J. Periaux (1–3) 1271–1299

Dynamics

Nonlinear dynamics of a two-body nonlinear mechanical system, J. Awrejcewicz (1–3) 1093–1108
The Hopf bifurcation and limit cycle by the incremental harmonic balance method, S.L. Lau and S.W. Yuen (1–3) 1109–1121
Analytical and numerical developments in 3D boundary element methods for elastic problems, W.L. Wendland (1–3) 1229–1235
Static and dynamic analysis of collapse behaviour of steel structures, A. Wada and H. Kubota (1–3) 1365–1378
Analytical dynamics of multibody systems, P. Maißer (1–3) 1391–1396
Industrial applications of linear/nonlinear dynamics of multibody systems, G. Kocher (1–3) 1397–1402
Dynamical equations in natural coordinates, H. Brauchli and R. Weber (1–3) 1403–1414

Elasticity

A finite element alternating method for evaluation of stress intensity

* The issue number is given in front of the page numbers.

factors for part-circular cracks subjected to arbitrary loadings, C.Y. Liao and S.N. Atluri (1–3) 1253–1270

Electromagnetic fields

Ideal magnetohydrodynamic stability computations for three-dimensional magnetic fusion devices, R. Gruber, S. Merazzi, W.A. Cooper, G.Y. Fu, U. Schwenn and D.V. Anderson (1–3) 1135–1149

Finite element and matrix methods

Control point forms for interactive grid manipulation, P.R. Eiseman (1–3) 1151–1156
A finite element alternating method for evaluation of stress intensity factors for part-circular cracks subjected to arbitrary loadings, C.Y. Liao and S.N. Atluri (1–3) 1253–1270
A new methodology of evaluation of C^0 bending finite elements, J. Rakowski (1–3) 1327–1338
On the essential mechanical boundary conditions in two-field finite element approximations, M. Berković and Z. Drašković (1–3) 1339–1355
A database design technique for finite element analysis, Y. Xingjian (1–3) 1357–1364

Fluid mechanics

Χάος – An adventure in chaos, J. Argyris, G. Faust and M. Haase (1–3) 997–1091
Numerical method for viscous hydrodynamic problems with dynamic contact lines, P.J. Shopov and I.Bl. Bazhlekov (1–3) 1157–1174
Modeling and simulation of separating mixture flows, M. Ungarish (1–3) 1175–1185
Numerical simulation of the thermal behaviour of heat exchangers and storage devices using multilevel and ADI techniques, R. Alba, A. Oliva, C.D. Pérez Segarra and M. Costa (1–3) 1203–1218
To the calculation of low frequency oscillations of the Earth core, S. Diakonov (1–3) 1219–1228
Spectral methods for high order equations, I. Mercader, M. Net and A. Falques (1–3) 1245–1251
On some imbedding methods applied to fluid dynamics and electromagnetics, C. Atamian, G.V. Dinh, R. Glowinski, J. He and J. Periaux (1–3) 1271–1299
A software system for standard presentation of flow fields in computational fluid dynamics, I.V. Orlov and V.L. Yumashev (1–3) 1379–1389

Heat and diffusion

Numerical simulation of solid–liquid phase change phenomena, M. Costa, A. Oliva, C.D. Pérez Segarra and R. Alba (1–3) 1123–1134
Numerical simulation of the thermal behaviour of heat exchangers and storage devices using multilevel and ADI techniques, R. Alba, A. Oliva, C.D. Pérez Segarra and M. Costa (1–3) 1203–1218

Incompressible and near incompressible media

Spectral methods for high order equations, I. Mercader, M. Net and A. Falques (1–3) 1245–1251

Kinematics

Analytical dynamics of multibody systems, P. Maißer (1–3) 1391–1396
Dynamical equations in natural coordinates, H. Brauchli and R. Weber (1–3) 1403–1414

Matrix calculus

Industrial applications of linear/nonlinear dynamics of multibody systems, G. Kocher (1–3) 1397–1402
Dynamical equations in natural coordinates, H. Brauchli and R. Weber (1–3) 1403–1414

Modern computer architecture

A database design technique for finite element analysis, Y. Xingjian (1–3) 1357–1364
A software system for standard presentation of flow fields in computational fluid dynamics, I.V. Orlov and V.L. Yumashev (1–3) 1379–1389

Nonlinear dynamics of systems

Χάος – An adventure in chaos, J. Argyris, G. Faust and M. Haase (1–3) 997–1091

Nonlinear mechanics

Nonlinear dynamics of a two-body nonlinear mechanical system, J. Awrejcewicz (1–3) 1093–1108
The Hopf bifurcation and limit cycle by the incremental harmonic balance method, S.L. Lau and S.W. Yuen (1–3) 1109–1121

Numerical solution procedure

Numerical simulation of solid–liquid phase change phenomena, M. Costa, A. Oliva, C.D. Pérez Segarra and R. Alba (1–3) 1123–1134
Ideal magnetohydrodynamic stability computations for three-dimensional magnetic fusion devices, R. Gruber, S. Merazzi, W.A. Cooper, G.Y. Fu, U. Schwenn and D.V. Anderson (1–3) 1135–1149

Problems in physics

Χάος – An adventure in chaos, J. Argyris, G. Faust and M. Haase (1–3) 997–1091
Control point forms for interactive grid manipulation, P.R. Eiseman (1–3) 1151–1156
Numerical method for viscous hydrodynamic problems with dynamic contact lines, P.J. Shopov and I.Bl. Bazhlekov (1–3) 1157–1174

Modeling and simulation of separating mixture flows, M. Ungarish (1 – 3) 1175 – 1185
To the calculation of low frequency oscillations of the Earth core, S. Diakonov (1 – 3) 1219 – 1228

Shells and plates

A new methodology of evaluation of C^0 bending finite elements, J. Rakowski (1 – 3) 1327 – 1338

Solution of differential equations

Nonlinear dynamics of a two-body nonlinear mechanical system, J. Awrejcewicz (1 – 3) 1093 – 1108
The Hopf bifurcation and limit cycle by the incremental harmonic balance method, S.L. Lau and S.W. Yuen (1 – 3) 1109 – 1121
Spectral methods for high order equations, I. Mercader, M. Net and A. Falques (1 – 3) 1245 – 1251
On some imbedding methods applied to fluid dynamics and electromagnetics, C. Atamian, G.V. Dinh, R. Glowinski, J. He and J. Periaux (1 – 3) 1271 – 1299
On the essential mechanical boundary conditions in two-field finite element approximations, M. Berković and Z. Drašković (1 – 3) 1339 – 1355

Solution of integral equations (singularity method)

Fundamental solutions of the Laplace operator and of Navier's elasticity operator for Riemann surfaces with two branch points, U. Heise (1 – 3) 1301 – 1325

Solution of ordinary and partial differential equations

Boundary elements for the solution of Navier–Stokes equations, A. Alujevic, G. Kuhn and P. Skerget (1 – 3) 1187 – 1201

Stability in fluid mechanics

Χάoς – An adventure in chaos, J. Argyris, G. Faust and M. Haase (1 – 3) 997 – 1091
Ideal magnetohydrodynamic stability computations for three-dimensional magnetic fusion devices, R. Gruber, S. Merazzi, W.A. Cooper, G.Y. Fu, U. Schwenn and D.V. Anderson (1 – 3) 1135 – 1149

Stability in structural mechanics

Static and dynamic analysis of collapse behaviour of steel structures, A. Wada and H. Kubota (1 – 3) 1365 – 1378

Structural mechanics

A finite element alternating method for evaluation of stress intensity

factors for part-circular cracks subjected to arbitrary loadings, C.Y. Liao and S.N. Atluri (1–3) 1253–1270
On the essential mechanical boundary conditions in two-field finite element approximations, M. Berković and Z. Drašković (1–3) 1339–1355

Thermal effects and thermodynamics

Numerical simulation of solid–liquid phase change phenomena, M. Costa, A. Oliva, C.D. Pérez Segarra and R. Alba (1–3) 1123–1134
Numerical simulation of the thermal behaviour of heat exchangers and storage devices using multilevel and ADI techniques, R. Alba, A. Oliva, C.D. Pérez Segarra and M. Costa (1–3) 1203–1218

Turbulence

Χάος – An adventure in chaos, J. Argyris, G. Faust and M. Haase (1–3) 997–1091

Viscous flow

Numerical method for viscous hydrodynamic problems with dynamic contact lines, P.J. Shopov and I.Bl. Bazhlekov (1–3) 1157–1174
Boundary elements for the solution of Navier–Stokes equations, A. Alujevic, G. Kuhn and P. Skerget (1–3) 1187–1201